

Session 1: Sample Issues

This session will be an open discussion centering on the following topics:

- Does the sample cover all body types appropriately?
- Should the sample ensure better coverage of all makes?
- Does the sample adequately cover all model years?

Note: The sample is drawn with the following criteria:

1. Pickups
2. Minivans, other light vans, and sport utilities
3. Light single-unit trucks (GVW < 26,000 lbs.)
4. Heavy single-unit trucks (GVW = 26,000 lbs. or more)
5. Truck-tractors

Session 2: Type of Vehicle, Physical Characteristics

Type of Vehicle

Which best describes this vehicle? *Mark ONE box only.*

- ☐ Tractor (truck tractor or road tractor)
- ☐ Other truck (with or without a trailer)

Questionnaire: TC-9502

Skip pattern: None

Quality issues: None

Type of Vehicle

Which body type most closely resembles this vehicle? *Mark ONE box only.*

- ☐ Pickup
- ☐ Minivan
- ☐ Van other than minivan (For example: conversion van, cargo van, etc.)
- ☐ Sport utility
- ☐ Other not elsewhere classified – *please specify* _____

Questionnaire: TC-9501

Skip pattern: None

Quality issues: Sample from contractor will be reviewed to identify and reject records with makes that are impossible for a particular stratum (for example, a Jeep appearing in stratum 5 will be rejected)

Action Item: Feedback needed from data users to identify make/stratum impossibilities

For trucks other than tractors, which of the following most closely resembles this truck's body type? *Mark ONE box only.*

- | | |
|--|--|
| <input type="checkbox"/> Armored | <input type="checkbox"/> Street sweeper |
| <input type="checkbox"/> Beverage | <input type="checkbox"/> Tank, dry bulk |
| <input type="checkbox"/> Concrete mixer | <input type="checkbox"/> Tank, liquids or gases |
| <input type="checkbox"/> Concrete pumper | <input type="checkbox"/> Tow/Wrecker (including flat bed type) |
| <input type="checkbox"/> Crane | <input type="checkbox"/> Trash, garbage, or recycling |
| <input type="checkbox"/> Curtainside | <input type="checkbox"/> Vacuum |
| <input type="checkbox"/> Dump (including belly or bottom dump) | <input type="checkbox"/> Van, basic enclosed (dry cargo) |
| <input type="checkbox"/> Flatbed (including any with added devices), stake, platform, etc. | <input type="checkbox"/> Van, insulated non-refrigerated |
| <input type="checkbox"/> Low boy (platform with depressed center) | <input type="checkbox"/> Van, insulated refrigerated |
| <input type="checkbox"/> Pole, logging, pulpwood, or pipe | <input type="checkbox"/> Van, open top (including low-side grain, fruit, potato bed, etc.) |
| <input type="checkbox"/> Service, utility (telephone line, cable, pipeline, etc.) | <input type="checkbox"/> Van, step, walk-in, or multistop (including hi-cube or cutaway) |
| <input type="checkbox"/> Service, other (mobile workshop, "craftsman's vehicle", etc.) | <input type="checkbox"/> Van, other |
| | <input type="checkbox"/> Other not elsewhere classified – <i>please specify</i> _____ |

Questionnaire: TC-9502

Skip pattern: Respondents with a tractor are asked to skip this question

Quality issues: Respondent may be coding based on vehicle's use, not by type of body (for example, a dump truck used to haul garbage may be reported as a garbage truck)

Several categories had publishing issues:

Body Type	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Pickup	0	0 %
Minivan	0	0 %
Other light vans	0	0 %
Sport utility	0	0 %
Armored	47	90 %
Beverage	11	21 %
Concrete mixer	1	2 %
Concrete pumper	39	75 %
Crane	26	50 %
Curtainside	50	96 %
Dump	0	0 %
Flatbed, stake, platform	0	0 %
Low boy	49	94 %
Pole, logging, pulpwood, pipe	24	46 %
Service, utility	0	0 %
Service, other	0	0 %
Street sweeper	46	88 %
Tank, dry bulk	27	52 %
Tank, liquids or gases	0	0 %
Tow/Wrecker	2	4 %
Trash, garbage, or recycling	0	0 %
Vacuum	24	46 %
Van, basic enclosed	0	0 %
Van, insulated nonrefrigerated	29	56 %
Van, insulated refrigerated	3	6 %
Van, open-top	7	13 %
Van, step, walk-in, or multistop	1	2 %
Van, other	1	2 %
Other	51	98 %

Action Item: Determine proper way to handle categories with a high percent not published

Type of Vehicle

Summary of proposed changes:

- Reject any sample file(s) that contain unacceptable make/stratum combination.
- Delete “low boy” as a single-unit body type.
- Collect “armored,” “concrete pumper,” “curtaininside,” and “street sweeper” but collapse in any publications (including CD-ROM) with “other.”

Physical Characteristics

What is the total number of axles on this vehicle?

- *Include front and rear axles, but do NOT include axles on any trailers pulled.*
- *Mark ONE box only.*
- ☐ Two axles (each axle has 2 tires)
- ☐ Two axles (front axle has 2 tires, rear axle has 4 tires)
- ☐ Other – *please specify* ____ axles

Questionnaire: TC-9501

Skip pattern: None

Quality issues: Respondent confusion over “two axle” options
Census relied heavily on comparison with administrative axle information

What is the total number of axles, including liftable axles, on this vehicle? *Mark ONE box only.*

- ☐ Two axles (each axle has 2 tires)
- ☐ Two axles (front axle has 2 tires, rear axle has 4 tires)
- ☐ Three axles
- ☐ Four axles
- ☐ Other – *please specify* ____ axles

Questionnaire: TC-9502

Skip pattern: None

Quality issues: Respondent confusion over “two axle” options
“5 axles or more” was not publishable in 56% of publications (29 of 52)
Census relied heavily on comparison with administrative axle information

Action item: Should Census rely on comparisons with administrative axle information?

Physical Characteristics

From [the total axle question] above, how many axles are driving (powered) axles? *Mark ONE box only.*

- ☐ One axle
- ☐ Two axles
- ☐ Other – *please specify* ____ axles

Questionnaire: TC-9501

Skip pattern: None

Quality issues: Census relied heavily on comparison with administrative axle information

From [the total axle question] above, how many axles are driving (powered) axles? *Mark ONE box only.*

- ☐ One axle
- ☐ Two axles
- ☐ Three axles or more

Questionnaire: TC-9502

Skip pattern: None

Quality issues: Census relied heavily on comparison with administrative axle information

Action Item: Should Census rely on comparisons with administrative driving axle information?

If administrative driving axle information is highly reliable, do we even need to ask a driving axle question? A little over 5% of records had an “unknown” code for driving axles.

Physical Characteristics

From [the total axle question] above, how many axles are liftable axles? *Mark ONE box only.*

- ☐ None
- ☐ One axle
- ☐ Two axles
- ☐ Three axles or more

Questionnaire: TC-9502

Skip pattern: None

Quality issues: “Two axles or more” was not publishable for 54% of publications (28 of 52).

Physical Characteristics

From [the total liftable axle question] above, how many of the liftable axles are located in the following locations? *Total number of axles indicated for this question should equal the total number of axles indicated in [the total liftable axle question] above.*

Axles forward of the drive axle _____ axles
 Axles behind the drive axle – below the chassis _____ axles
 Axles behind the drive axle – extending beyond the chassis _____ axles

Questionnaire: TC-9502
 Skip pattern: Respondents who indicate no liftable axles are asked to skip this question
 Quality issues: Some issues with publishing liftable axle locations when tabbed with the total liftable axles.

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Total liftable axles and locations:		
None	0	0 %
1	0	0 %
Forward of the drive axles	2	4 %
Below the chassis	11	21 %
Beyond the chassis	28	54 %
Not reported	6	12 %
2 or more	28	54 %
Forward of the drive axles	28	54 %
Below the chassis	41	79 %
Beyond the chassis	38	73 %
Not reported	49	94 %

Physical Characteristics

From [the total liftable axle question] above, how many liftable axles are braking axles? *Mark ONE box only.*

- ☐ None
- ☐ One axle
- ☐ Two axles
- ☐ Three axles or more

Questionnaire: TC-9502

Skip pattern: Respondents who indicate no liftable axles are asked to skip this question

Quality issues: Some issues with publishing number of liftable braking axles when tabbed with the total liftable axles.

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Total liftable axles and number of braking axles:		
None	0	0 %
1	0	0 %
0 braking	9	17 %
1 braking	1	2 %
Not reported	31	60 %
2 or more	28	54 %
0 braking	49	94 %
1 braking	49	94 %
2 or more braking	28	54 %
Not reported	49	94 %

Physical Characteristics

What type of brakes does this vehicle have? *Mark ONE box only.*

- ☐ Hydraulic (standard)
- ☐ Hydraulic with power assist
- ☐ Air
- ☐ Other – *please specify* _____

Questionnaire: TC-9502

Skip pattern: None

Quality issues: None

Physical Characteristics

What type of cab does this vehicle have? *Mark ONE box only.*

- ☐ Conventional cab
- ☐ Cab over engine
- ☐ Cab forward of engine
- ☐ Cab beside engine

Questionnaire: TC-9502

Skip pattern: None

Quality issues: Verify Census editing policy: administrative data is available for the first two options, when a respondent reported either of these two options it was edited to match. If the third or fourth option was marked it was not matched to administrative data since neither option is a valid administrative option.
“Cab forward of engine” was not publishable for 60% of publications (31 of 52)
“Cab beside engine” was not publishable for 83% of publications (43 of 52)

Physical Characteristics

Does the cab of this vehicle contain a sleeper? *Mark ONE box only.*

- ☐ Yes
- ☐ No

Questionnaire: TC-9502

Skip pattern: Respondents who indicate “cab forward of engine” or “cab beside engine” are asked to skip this question

Quality issues: Verify Census editing policy: single-unit vehicles were not allowed to indicate a sleeper. If the respondent indicated a sleeper it was changed to no sleeper, and if no response was given it was coded to no sleeper. Approximately 530 records were modified.

Physical Characteristics

What type of transmission does this vehicle have? *Mark ONE box only.*

- ☐ Automatic
- ☐ Manual
- ☐ Semi-automated manual (driver shifts with an electronic module)
- ☐ Automated manual (no driver shifting – shifting done electronically)

Questionnaire: TC-9501 and TC-9502

Skip pattern: None

Quality issues: “Semi-automated manual” was not publishable for 54% (all trucks) of publications (28 of 52)
“Automated manual” was not publishable for 83% (all trucks) and 73% (large trucks) of publications (43 and 38 of 52, respectively).

Physical Characteristics

Does this vehicle have any of the following permanent equipment? *Mark ALL that apply.*

- | | |
|--|---|
| <input type="checkbox"/> Aerial work platform/bucket | <input type="checkbox"/> Trip recorder or on-board computer with remote communication capabilities |
| <input type="checkbox"/> Air bag(s) (safety device only) | <input type="checkbox"/> Trip recorder or on-board computer without communication capabilities |
| <input type="checkbox"/> Air-conditioning | <input type="checkbox"/> Vehicle control aids for handicapped drivers |
| <input type="checkbox"/> Antilock brake system | <input type="checkbox"/> Wheelchair lift |
| <input type="checkbox"/> Computerized drive train control unit | <input type="checkbox"/> Winch |
| <input type="checkbox"/> Front-wheel drive | |
| <input type="checkbox"/> Mounting bar for snowplow | |
| <input type="checkbox"/> Radial tires | |
| <input type="checkbox"/> Toolbox | |

Questionnaire: TC-9501

Skip pattern: None

Quality issues: Verify Census editing policy: only light vans were allowed to report aerial work platform/bucket. Was Census correct in blanking out the few reporters who indicated a pickup, SUV, or minivan with this option? Vehicle control aids for handicapped drivers was only published on the U.S. level. Propose dropping from questionnaire. Wheelchair lift was only published for two states and the U.S. Propose dropping from questionnaire.

Does this vehicle have any of the following permanent equipment? *Mark ALL that apply.*

- | | |
|--|---|
| <input type="checkbox"/> Aerial work platform/bucket | <input type="checkbox"/> Internet access |
| <input type="checkbox"/> Air bag(s) (safety device only) | <input type="checkbox"/> Lift gate |
| <input type="checkbox"/> Air compressor (except air brakes) | <input type="checkbox"/> Mounting bar for snowplow |
| <input type="checkbox"/> Air-conditioning | <input type="checkbox"/> Navigational system |
| <input type="checkbox"/> Air springs | <input type="checkbox"/> Power take-off |
| <input type="checkbox"/> Antilock brake system | <input type="checkbox"/> Radial tires |
| <input type="checkbox"/> Collision warning system | <input type="checkbox"/> Reflective material in addition to those required by law |
| <input type="checkbox"/> Computerized drive train control unit | <input type="checkbox"/> Road speed governor |
| <input type="checkbox"/> Crane | <input type="checkbox"/> Toolbox |
| <input type="checkbox"/> Electronic vehicle identification device (transponder), etc. | <input type="checkbox"/> Trip recorder or on-board computer with remote communication capabilities |
| <input type="checkbox"/> Engine retarder/brake | <input type="checkbox"/> Trip recorder or on-board computer without communication capabilities |
| <input type="checkbox"/> Hoist | <input type="checkbox"/> Winch |
| <input type="checkbox"/> Idle-reducing technology (portable auxiliary pack, electrification, etc.) | |

Questionnaire: TC-9502

Skip pattern: None

Quality issues: Internet access was published for 18 states and the U.S. Enough to continue collecting?

Navigational system was published for 22 states and the U.S. Enough to continue collecting?

Physical Characteristics

Summary of proposed changes:

- Drop total axle question from TC-9501 form.
- Collapse two axle response options under total axle question on TC-9502 form.
- Drop “four axles” (total) from publications/CD-ROM – collapse to “four axles or more.”
- Drop driving axle question from both forms. Derive driving axles from administrative data.
- Drop “Three axles or more” from the liftable axle question and change “Two axles” to “Two axles or more.”
- Change how we publish liftable axle locations by eliminating the cross tab with total liftable axles and publishing just totals by location for all.
- Drop “Three axles or more” from the braking liftable axle question and change “Two axles” to “Two axles or more.”
- Change how we publish number of braking liftable axles by eliminating the cross tab with total liftable axles and publishing just totals for each response option.
- Drop “cab forward of engine and cab beside engine” as separate lines in publications/CD-ROM – collapse to “other.”
- Collapse “semi-automated manual” and “automated manual” response options to “automated/semi-automated manual” and add option for “CVT.”
- Change Census editing policy to allow pickups with “aerial work platform/bucket.” Keep edit to blank out this response for minivans and SUVs.
- Drop “Vehicle control aids for handicapped drivers,” “Wheelchair lift,” and any other equipment options identified at the workshop (on TC-9501 form).
- Drop any equipment options identified at the workshop for the TC-9502 form.

Session 3: Vehicle Configuration, Weight

Vehicle Configuration

What was the approximate percent of this vehicle's 2007 mileage for each of the following vehicle configurations? *Trailer mounted equipment should be treated as a trailer.*

No trailer pulled	_____ %
Trailer pulled	_____ %
TOTAL	100 %

Questionnaire:	TC-9501
Skip pattern:	Vehicles not in use are asked to skip this question
Quality issues:	These data items only appear on the CD-ROM (primary category is published)

What was the approximate percent of this vehicle's 2007 mileage for each of the following vehicle configurations? *Trailer mounted equipment should be treated as a trailer.*

No trailer pulled	_____ %
Single trailer pulled	_____ %
Double trailers pulled	_____ %
Triple trailers pulled	_____ %
TOTAL	100 %

Questionnaire:	TC-9502
Skip pattern:	Vehicles not in use are asked to skip this question
Quality issues:	Triple trailer data not high quality/publishable for most states. Census only published triple trailer counts for three states (Illinois, Oregon, and Virginia) and the U.S. According to Census research, Oregon is the only state published that actually allows triples to operate in their state. How reliable can these estimates be? These data items only appear on the CD-ROM (primary category is published)

Vehicle Configuration

For which category, from [the vehicle configuration] question above, did you report the highest percent?

- *If your highest percent occurs for more than one category, choose the category that you most identify with.*
- *Mark ONE box only.*

- ☐ No trailer pulled
- ☐ Trailer pulled

Questionnaire: TC-9501
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: None

For which category, from [the vehicle configuration] question above, did you report the highest percent?

- *If your highest percent occurs for more than one category, choose the category that you most identify with.*
- *Mark ONE box only.*

- ☐ No trailer pulled
- ☐ Single trailer pulled
- ☐ Double trailers pulled
- ☐ Triple trailers pulled

Questionnaire: TC-9502
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: See previous question for issue with triple trailers.

Vehicle Configuration

How many axles were on the trailer unit most often pulled by this vehicle? *Mark ONE box only.*

- ☐ One axle on trailer
- ☐ Two axles on trailer
- ☐ Three or more axles on trailer

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles not pulling a trailer are asked to skip this question

Quality issues: None

Vehicle Configuration

What was the length of the trailer unit most often pulled by this vehicle?

Round to the nearest whole number.

_____ feet

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles not pulling a trailer are asked to skip this question

Quality issues: This data item only appears on the CD-ROM in recoded ranges

Vehicle Configuration

SINGLE TRAILER

How many axles were on this trailer? *Mark ONE box only.*

- ☐ One axle on trailer
- ☐ Two axles on trailer
- ☐ Three or more axles on trailer

What was the length of this trailer? *Round to the nearest whole number.* _____feet

What was the exterior width of this trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- ☐ Other – *please specify* _____inches

Questionnaire: TC-9502

Skip pattern:

Vehicles not in use are asked to skip these questions

Vehicles not pulling a trailer are asked to skip these questions

Vehicles pulling double trailers are asked to skip these questions

Vehicles pulling triple trailers are asked to skip these questions

Quality issues:

The trailer length and width data items only appear on the CD-ROM
(length is recoded to ranges)

Vehicle Configuration

DOUBLE TRAILERS

How many axles were on this trailer configuration, including any converter dollies?

- Do NOT include any axles on the power unit.
- *Mark ONE box only.*

- ☐ Three axles on two trailers
- ☐ Four axles on two trailers
- ☐ Five axles on two trailers
- ☐ Six or more axles on two trailers

What was the length of each trailer? *Round to the nearest whole number.*

First trailer _____feet

Second trailer _____feet

What was the exterior width of the first trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- ☐ Other – *please specify* _____inches

What was the exterior width of the second trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- Other – *please specify* _____inches

Questionnaire:	TC-9502
Skip pattern:	Vehicles not in use are asked to skip these questions Vehicles not pulling a trailer are asked to skip these questions Vehicles pulling a single trailer are asked to skip these questions Vehicles pulling triple trailers are asked to skip these questions
Quality issues:	The trailer length and width data items only appear on the CD-ROM (length is recoded to ranges)

Axle information is not published for most states:

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Truck tractors with double trailers	23	44 %
5 axles	39	75 %
6 axles	41	79 %
7 axles	42	81 %
8 or more axles	39	75 %

Vehicle Configuration

TRIPLE TRAILERS

How many axles were on this trailer configuration, including any converter dollies?

- Do NOT include any axles on the power unit.
- *Mark ONE box only.*

- ☐ Five axles on three trailers
- ☐ Six axles on three trailers
- ☐ Seven axles on three trailers
- ☐ Eight or more axles on three trailers

What was the length of each trailer? *Round to the nearest whole number.*

First trailer _____feet

Second trailer _____feet

Third trailer _____feet

What was the exterior width of the first trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- ☐ Other – *please specify* _____inches

What was the exterior width of the second trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- Other – *please specify* _____inches

What was the exterior width of the third trailer? *Mark ONE box only.*

- ☐ 96 inches
- ☐ 102 inches
- Other – *please specify* _____inches

Questionnaire:

TC-9502

Skip pattern:

Vehicles not in use are asked to skip this question

Vehicles not pulling a trailer are asked to skip this question

Vehicles pulling a single trailer are asked to skip this question

Vehicles pulling double trailers are asked to skip this question

Quality issues: The trailer length and width data items only appear on the CD-ROM
 (length is recoded to range(s))
 Axle information is not published for most states:

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Truck tractors with triple trailers	48	92 %
7 axles	50	96 %
8 axles	52	100 %
9 axles	52	100 %
10 or more axles	52	100 %

Vehicle Configuration

Which body type most closely resembles the type of trailer most often attached to this vehicle?
Mark ONE box only.

- ☐ Automobile carrier (excluding curtain, van, or flatbed)
- ☐ Beverage
- ☐ Curtainside
- ☐ Dump (including belly or bottom dump)
- ☐ Flatbed, platform, etc.
- ☐ Livestock (including livestock drop frame)
- ☐ Low boy (platform with depressed center)
- ☐ Mobile home toter
- ☐ Open top (including vans, low-side grain, fruit, etc.)
- ☐ Pole, logging, pulpwood, or pipe
- ☐ Tank, dry bulk
- ☐ Tank, liquids or gases
- ☐ Trailer mounted equipment
- ☐ Van, basic enclosed (dry cargo)
- ☐ Van, drop frame (excluding livestock)
- ☐ Van, insulated non-refrigerated
- ☐ Van, insulated refrigerated
- ☐ Other not elsewhere classified – *please specify* _____

Questionnaire: TC-9502
 Skip pattern: Vehicles not in use are asked to skip this question
 Quality issues: Several categories had publishing issues:

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Automobile carrier	33	63 %
Curtainside	45	87 %
Livestock	27	52 %
Mobile home toter	45	87 %
Van, drop frame	32	62 %
Van, insulated non-refrigerated	27	52 %
Other	49	94 %

In addition, “trailer mounted equipment” was collected but only put on the CD-ROM – should this, and the categories mentioned above, be published under “other” or collapsed with other “like” categories?

Vehicle Configuration

Referring to the configuration indicated in [the vehicle configuration] question above (no trailer or trailer pulled), what was the total length of this vehicle or vehicle/trailer combination?

- *Report distance from front bumper to rear of vehicle or trailer(s).*
- *Mark ONE box only.*

- ☐ Less than 16.0 feet
- ☐ 16.0 to 19.9 feet
- ☐ 20.0 to 27.9 feet
- ☐ 28.0 to 35.9 feet
- ☐ 36.0 to 40.9 feet
- ☐ 41.0 to 44.9 feet
- ☐ 45.0 to 49.9 feet
- ☐ Other – *please specify* ____ . ____ feet

Questionnaire: TC-9501
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: See below

Referring to the configuration indicated in [the vehicle configuration] question on page x (no trailer, single trailer, double trailers, or triple trailers pulled), what was the total length of this vehicle or vehicle/trailer combination?

- *Report distance from front bumper to rear of vehicle or trailer(s).*
- *Mark ONE box only.*

- | | |
|--|--|
| <input type="checkbox"/> Less than 16.0 feet | <input type="checkbox"/> 50.0 to 54.9 feet |
| <input type="checkbox"/> 16.0 to 19.9 feet | <input type="checkbox"/> 55.0 to 59.9 feet |
| <input type="checkbox"/> 20.0 to 27.9 feet | <input type="checkbox"/> 60.0 to 64.9 feet |
| <input type="checkbox"/> 28.0 to 35.9 feet | <input type="checkbox"/> 65.0 to 69.9 feet |
| <input type="checkbox"/> 36.0 to 40.9 feet | <input type="checkbox"/> 70.0 to 74.9 feet |
| <input type="checkbox"/> 41.0 to 44.9 feet | <input type="checkbox"/> 75.0 to 79.9 feet |
| <input type="checkbox"/> 45.0 to 49.9 feet | <input type="checkbox"/> 80.0 feet or more |

Questionnaire: TC-9502
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: “80.0 feet or more” was not publishable in 52% of publications (27 of 52)
Approximately 25% of all total length records were either imputed or analyst changed. One thought is that the number of options makes it hard for respondents to correctly report the vehicle length. Census proposes collapsing the categories collected:

- ☐ Less than 20.0 feet (TC-9501 and TC-9502)
- ☐ 20.0 to 27.9 feet (TC-9501 and TC-9502)
- ☐ 28.0 to 35.9 feet (TC-9501 and TC-9502)
- ☐ 36.0 to 44.9 feet (TC-9501 and TC-9502)
- ☐ Other – *please specify* ____ . ____ feet (TC-9501)
- ☐ 45.0 to 54.9 feet (TC-9502)
- ☐ 55.0 to 64.9 feet (TC-9502)
- ☐ 65.0 to 74.9 feet (TC-9502)
- ☐ 75.0 feet or more (TC-9502)

Vehicle Configuration

Summary of proposed changes:

- Collapse double and triple trailers pulled categories.
- Eliminate trailer axle question.
- Eliminate trailer width question.
- Collapse several trailer type options in published tables/CD-ROM.
- Collapse several response options for vehicle's overall length.

Weight

What was the empty weight of this vehicle or vehicle/trailer combination? *Mark ONE box only.*

- ☐ Less than 6,001 pounds
- ☐ 6,001 to 8,500 pounds
- ☐ 8,501 to 10,000 pounds
- ☐ Other – *please specify* _____ , _____ pounds

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: This data item only appears on the CD-ROM
Did breaking out “6,001 to 8,500 pounds” help anyone?

What was the empty weight of this vehicle or vehicle/trailer combination?

Round to the nearest whole pound. _____ , _____ pounds

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: This data item only appears on the CD-ROM

Weight

What was the average weight (vehicle weight plus cargo weight) of this vehicle or vehicle/trailer combination as it was most often operated when carrying a typical payload during 2007? *Mark ONE box only.*

- ☐ Less than 6,001 pounds
- ☐ 6,001 to 8,500 pounds
- ☐ 8,501 to 10,000 pounds
- ☐ 10,001 to 14,000 pounds
- ☐ 14,001 to 16,000 pounds
- ☐ 16,001 to 19,500 pounds
- ☐ Other – *please specify* _____ , _____ pounds

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: Did breaking out “6,001 to 8,500 pounds” help anyone?

Only 26% of light vehicles match administrative weight – 20% didn’t report any weight, and 54% reported a weight not matching the administrative weight. About 74% of light vehicles were used for personal transportation or were not in use, which seem to be records that should match the administrative weight.

What was the average weight (vehicle weight plus cargo weight) of this vehicle or vehicle/trailer combination as it was most often operated when carrying a typical payload during 2007?
Round to the nearest whole pound. _____ , _____ pounds

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: The published line for “130,001 or more” pounds was not published for 90% of publications (47 of 52)

Weight

Summary of proposed changes:

- Drop empty and average weight question for the TC-9501 form. Pull administrative weight.
- Collapse average weight categories “130,001 or more” with “100,001 to 130,000” to form “100,001 or more” in publications/CD-ROM.

Time Operated

During 2007, what reasons (if any) was this vehicle NOT in use for periods of 90 consecutive days or more? *Mark ALL that apply.*

- ☐ Not applicable
- ☐ Seasonal
- ☐ Not needed/idle (excluding seasonal)
- ☐ Under repair
- ☐ Other – *please specify* _____

Questionnaire: TC-9501 and TC-9502

Skip pattern: None

Quality issues: These data items only appear on the CD-ROM

Write-in responses highlighted an option respondents wanted to see – a vehicle wasn't used for 90 or more days because it was not owned. Either clarify in question "when owned" or allow a response option of "not owned" or something similar.

Approximately 98% of "not applicable" responses were derived from either written responses or from analyst recoding when the vehicle operated all 12 months.

Time Operated

During 2007, how many months was this vehicle used?

- *Round to the nearest whole month.*
- *Mark ONE box only.*

- ☐ 12 months
- ☐ 7-11 months
- ☐ 2-6 months
- ☐ 1 month or less
- ☐ Vehicle not used (no miles driven)

Questionnaire: TC-9501 and TC-9502

Skip pattern: None

Quality issues: None

Time Operated

Summary of proposed changes:

- Split the not in use question into two questions:
 1. While this vehicle was in your possession during 2007, was it NOT used for periods of 90 consecutive days or more?
 - ☐ Yes (proceeds to next question)
 - ☐ No (skips next question)
 2. For what reason(s) was this vehicle NOT used?
 - ☐ Seasonal
 - ☐ Not needed/idle (excluding seasonal)
 - ☐ Under repair
 - ☐ Other – *please specify* _____

Miles

How many miles was this vehicle driven during 2007?

Round to the nearest whole mile.

____ , ____ miles

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: Approximately 17% of records were imputed.

Miles

How many miles has this vehicle been driven since it was manufactured?

- If the odometer has turned over, please enter the figure for the total amount.
- If the vehicle is no longer in your possession, enter the figure from when you last operated the vehicle.
- Round to the nearest whole mile. _____, _____, _____ miles

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues:	This data item only appears on the CD-ROM Approximately 20% of records were imputed.
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Miles

How many miles-per-gallon (mpg) did this vehicle average during 2007?

- *If compressed natural gas (CNG) is used, give miles per gasoline gallon equivalent (GGE).
1 GGE = 123 cubic feet CNG.*
- *Report to the nearest tenth.* _____ . ____ mpg

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: Verify Census editing policy: medium and heavy trucks were not allowed to have MPG over 20.0 (a few exceptions were allowed). Was Census correct in blanking out these MPGs?

Miles

What was the approximate percent of this vehicle's 2007 mileage for each of the following jurisdictions? *Round to the nearest whole percent.*

Operated in Canada	_____ %
Operated in Mexico	_____ %
Operated within the home base state	_____ %
Operated in states other than the home base (or has no home base)	_____ %
TOTAL	100%

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: "Operated in Canada" was not publishable for 94% (all trucks) and 92% (large trucks) of publications (49 and 48 of 52, respectively).
"Operated in Mexico" was not publishable for 100% (all trucks) and 98% (large trucks) of publications (52 and 51 of 52, respectively).
These data items only appear on the CD-ROM (primary category is published)
Discuss Census proposal to collect breakout of "states other than the home base state" as found on page 42.

Miles

What approximate percent of this vehicle's 2007 mileage was accounted for by the type of trips listed below?

- *If this vehicle does not operate from a home base, report the average range of operation.*
- *Round to the nearest whole percent.*

Trips off-the-road	_____ %
Trips on public/private roads within:	
50 miles or less from vehicle's home base	_____ %
51 to 100 miles from vehicle's home base	_____ %
101 to 200 miles from vehicle's home base	_____ %
201 to 500 miles from vehicle's home base	_____ %
501 miles or more from vehicle's home base	_____ %
TOTAL	100%

Questionnaire:	TC-9501 and TC-9502
Skip pattern:	Vehicles not in use are asked to skip this question
Quality issues:	These data items only appear on the CD-ROM (primary category is published)

Miles

Summary of proposed changes:

- Change the jurisdiction question as follows:

What was the approximate percent of this vehicle's 2007 mileage for each of the following jurisdictions? *Round to the nearest whole percent.*

Operated in Canada	_____	%
Operated in Mexico	_____	%
Operated within the home base state	_____	%
Operated in states other than the home base (or has no home base):		
<i>Report up to the three highest states, other than the home base state.</i>		
Highest state, <i>specify</i> _____	_____	%
Second highest state, <i>specify</i> _____	_____	%
Third highest state, <i>specify</i> _____	_____	%
All other states, excluding those above	_____	%
TOTAL		100%

Fuel and Maintenance

During 2007, what type of fuel or fuel combination was most often used in this vehicle? *If a fuel combination was used, mark ALL that make up the combination. Otherwise, mark ONE box only.*

- ☐ Gasoline (including gasohol)
- ☐ Diesel (including biodiesel)
- ☐ Natural gas (compressed or liquid)
- ☐ Propane (liquefied petroleum gas)
- ☐ Alcohol fuels (ethanol or methanol)
- ☐ Electricity
- ☐ Other – *please specify* _____

Questionnaire: TC-9501 and TC-9502
 Skip pattern: Vehicles not in use are asked to skip this question
 Quality issues: Several categories had publishing issues:

Stub Line	All Trucks		Medium and Heavy Trucks	
	# of Publications (of 52) not Published	% of Publications (of 52) not Published	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Gasoline	0	0%	0	0%
Diesel	0	0%	0	0%
Natural gas	50	96%	50	96%
Propane	22	42%	18	35%
Alcohol fuels	47	90%	50	96%
Electricity	52	100%	52	100%
Combination	41	79%	46	88%
Other	52	100%	52	100%
Not reported	46	88%	48	92%
Not applicable	0	0%	1	2%

Fuel and Maintenance

During 2007, at what type of location was this vehicle typically refueled? *Mark ONE box only.*

- ☐ Gas station
- ☐ Truck stop
- ☐ Your own facility (including home, farm, ranch, on-site by mobile supplier, etc.)
- ☐ Other company's/contractor's facility not open to the public
- ☐ Other – *please specify* _____

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: None

Fuel and Maintenance

During 2007, who performed any GENERAL maintenance (oil change, brake change, headlight replacement, etc.) on this vehicle? *Mark ALL that apply.*

- ☐ None performed
- ☐ Company-owned maintenance facility
- ☐ General repair business or private mechanic (includes gas stations, truck stops, parts store, etc.)
- ☐ Dealership service department
- ☐ Leasing company
- ☐ Yourself, spouse, friend, etc. while not employed/paid by any maintenance type facility
- ☐ Other – *please specify* _____

Questionnaire: TC-9501 and TC-9502
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: None

Fuel and Maintenance

During 2007, were any EXTENSIVE repairs (driveline repair, engine repair/rebuild, transmission repair/rebuild, differential repair/rebuild, etc.) performed on this vehicle? *Mark ONE box only.*

- ☐ Yes
- ☐ No

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: None

Fuel and Maintenance

Who performed these EXTENSIVE repairs? *Mark ALL that apply.*

- ☐ Company-owned maintenance facility
- ☐ General repair business or private mechanic (includes gas stations, truck stops, parts store, etc.)
- ☐ Dealership service department
- ☐ Leasing company
- ☐ Component distributorship (engine, transmission, body, etc.)
- ☐ Yourself, spouse, friend, etc. while not employed/paid by any repair type facility
- ☐ Other – *please specify* _____

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles indicating no extensive repairs are asked to skip this question

Quality issues: “Leasing company” was not publishable for 79% (all trucks) and 73% (large trucks) of publications (41 and 38 of 52, respectively).

“Component distributorship” was not publishable for 65% (all trucks) of publications (34 of 52)

Fuel and Maintenance

Summary of proposed changes:

- Collapse fuel categories “Natural gas,” “Alcohol fuels,” “Electricity,” “Combinations,” and maybe “Propane” to form “Other” in publications/CD-ROM.

Session 5: Kind of Business, For-Hire

Kind of Business

Which of the following best describes your business (or part of your business) in which this vehicle or vehicle/trailer combination was most often used during 2007?

- *If vehicle was leased, indicate business of lessee.*
- *Mark ONE box only.*
- ☐ Vehicle leasing or rental (includes short-term rentals)
- ☐ Agriculture, forestry, fishing, or hunting
- ☐ Mining (includes quarrying, well operations, and beneficiating)
- ☐ Utilities (includes electric power, natural gas, steam supply, water supply, and sewage removal)
- ☐ Construction (includes land subdivision and development, as well as construction activity by special trade contractors)
- ☐ Manufacturing
- ☐ Wholesale trade
- ☐ Retail trade
- ☐ Information services (includes telephone and television)
- ☐ Waste management, landscaping, or administrative/support services
- ☐ Arts, entertainment, or recreation services
- ☐ Accommodation or food services (for immediate consumption)
- ☐ Other services, including real estate, nonvehicle leasing or rental, educational, health care, social assistance, finance, insurance, professional, scientific, or technical services
- ☐ For-hire transportation or warehousing
- ☐ Other – *please describe in detail* _____

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles operating for personal transportation are asked to skip this question
Vehicles operating as rentals are asked to skip this question

Quality issues: Over 500 write-ins for landscaping, even though it appears in the text with waste management
A few categories had publishing issues:

Stub line	# of Publications (of 52) not Published	% of Publications (of 52) not Published
Information services	33	63 %
Arts, entertainment, or recreation services	38	73 %
Accommodation or food services	34	65 %

Kind of Business

Which of the following best describes your business (or part of your business) in which this vehicle or vehicle/trailer combination was most often used during 2007?

- *If vehicle was leased, indicate business of lessee.*
- *Mark ONE box only.*

- ☐ For-hire transportation or warehousing
- ☐ Vehicle leasing or rental (includes short-term rentals)
- ☐ Agriculture, forestry, fishing, or hunting
- ☐ Mining (includes quarrying, well operations, and beneficiating)
- ☐ Utilities (includes electric power, natural gas, steam supply, water supply, and sewage removal)
- ☐ Construction (includes land subdivision and development, as well as construction activity by special trade contractors)
- ☐ Manufacturing
- ☐ Wholesale trade
- ☐ Retail trade
- ☐ Information services (includes telephone and television)
- ☐ Waste management, landscaping, or administrative/support services
- ☐ Arts, entertainment, or recreation services
- ☐ Accommodation or food services (for immediate consumption)
- ☐ Other services, including real estate, nonvehicle leasing or rental, educational, health care, social assistance, finance, insurance, professional, scientific, or technical services
- ☐ Other – *please specify* _____

Questionnaire: TC-9502
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: Same issues as noted on previous page

Kind of Business

What was the approximate percent of this vehicle or vehicle/trailer combination's 2007 mileage for each of the following operator classifications? *Round to the nearest whole percent.*

Personal transportation (operated as a personal-use vehicle for travel to work, carpooling, pleasure driving, etc.)	_____%
Rental (daily and other short term)	_____%
Business use:	
Private (carry own goods, or use truck for internal company business only)	_____%
Motor carrier (company owned trucks hired to carry other people's goods)	_____%
Owner operator (independent truckers hired to carry other people's goods)	_____%
TOTAL	100%

Questionnaire:	TC-9501
Skip pattern:	Vehicles not in use are asked to skip this question
Quality issues:	Definition of business use/private and/or personal transportation may need to be clarified. Where does a private citizen report if a truck is used for personal non-business use – such as hauling trash, wood, etc.? These data items only appear on the CD-ROM (primary category is published)

What was the approximate percent of this vehicle or vehicle/trailer combination's 2007 mileage for each of the following operator classifications? *Round to the nearest whole percent.*

Private (carry own goods, or use truck for internal company business only)	_____%
Motor carrier (company owned trucks hired to carry other people's goods)	_____%
Owner operator (independent truckers hired to carry other people's goods)	_____%
Rental (daily and other short term)	_____%
Personal transportation	_____%
TOTAL	100%

Questionnaire:	TC-9502
Skip pattern:	Vehicles not in use are asked to skip this question
Quality issues:	Definition of private – see issue with TC-9501 version. In addition, verify how someone like a landscaper should report. Will carry their own tools/equipment, but haul away debris that doesn't belong to them. Discussion needs to be held on expected relationship between business of "Vehicle leasing or rental" and operator classification of "Rental" Discussion needs to be held on expected relationship between business of "For-hire transportation and warehousing" and operator classifications "Motor carrier" and "Owner operator" These data items only appear on the CD-ROM (primary category is published)

Kind of Business

For which category, from [the operator classification] question above, did you report the highest percent?

- *If your highest percent occurs for more than one category, choose the category that you most identify with.*
- *Mark ONE box only.*

- ☐ Personal transportation
- ☐ Rental
- ☐ Business use (any category)

Questionnaire: TC-9501
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: None

For which category, from [the operator classification] question above, did you report the highest percent?

- *If your highest percent occurs for more than one category, choose the category that you most identify with.*
- *Mark ONE box only.*

- ☐ Private
- ☐ Motor carrier
- ☐ Owner operator
- ☐ Rental
- ☐ Personal transportation

Questionnaire: TC-9502
Skip pattern: Vehicles not in use are asked to skip this question
Quality issues: None

Kind of Business

Summary of proposed changes:

- Split the “Waste management, landscaping, or administrative/support services” response option into three separate lines on both report forms. Collapse all three categories back for publications/CD-ROM.

For-Hire

What was the approximate percent of this vehicle or vehicle/trailer combination's 2007 mileage for each of the following kinds of carrier? *Round to the nearest whole percent.*

Contract: Offered transportation service to certain shippers under specific contracts	_____%
Common: Offered transportation services to the general public over regular and irregular routes	_____%
TOTAL	100%

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating private use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: These data items only appear on the CD-ROM (primary category is published)

For-Hire

What was the approximate percent of this vehicle or vehicle/trailer combination's 2007 mileage for each of the following kinds of service? *Round to the nearest whole percent.*

Truckload: A single shipment carried at one time	_____%
Less-than-truckload: Multiple shipments carried at one time	_____%
TOTAL	100%

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating private use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: These data items only appear on the CD-ROM (primary category is published)

For-Hire

In 2007, what percent of this vehicle or vehicle/trailer combination's hauls (including backhauls) were found from the following sources? *Round to the nearest whole percent.*

Shippers or receivers directly	_____%
Brokers	_____%
Centralized markets or exchanges	_____%
Other – <i>please specify</i> _____	_____%
TOTAL	100%

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating private use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: These data items only appear on the CD-ROM (primary category is published)
Approximately 2,500 records had write-ins that analysts had to code (almost 17% of responses). Response options need to be reworked or this question should be dropped.

For-Hire

From ANY of the sources listed in [the source of hauls] question above, what percent were found through the use of the Internet? *Round to the nearest whole percent.* _____%

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating private use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: This data item only appears on the CD-ROM
This question is dropped if previous question is dropped

For-Hire

In 2007, how many pickups and/or deliveries did this vehicle or vehicle/trailer combination average in a week? *Round to the nearest number, including zero.*

Questionnaire:	TC-9502
Skip pattern:	Vehicles not in use are asked to skip this question Vehicles indicating private use are asked to skip this question Vehicles indicating rental use are asked to skip this question Vehicles indicating personal transportation use are asked to skip this question
Quality issues:	This data item only appears on the CD-ROM

For-Hire

Summary of proposed changes:

- Decision to be made on reworking or dropping source of hauls question (and percent of hauls from internet question).

Session 6: Products, Equipment, or Materials and Hazardous Materials

Products, Equipment, or Materials

What was the approximate percent of this vehicle or vehicle/trailer combination's 2007 mileage for each of the following categories?

Empty – NOT CARRYING any products, tools, equipment, or materials	_____%
Loaded – CARRYING products, tools, equipment, or materials	_____%
TOTAL	100%

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: These data items only appear on the CD-ROM
Discuss limiting the products section to freight hauling segment only
(which would eliminate products from the TC-9501 form)

Products, Equipment, or Materials

From [the empty/loaded] question above, did you report 100% for EMPTY mileage? *Mark ONE box only.*

- ☐ Yes
- ☐ No

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles indicating rental use are asked to skip this question
Vehicles indicating personal transportation use are asked to skip this question

Quality issues: This data item only appears on the CD-ROM
Approximately 20% of records were computer or analyst edited

Products, Equipment, or Materials

During 2007, what products, tools, equipment, or materials did this vehicle carry, and what approximate percent of LOADED mileage were they carried?

Read the following directions and example carefully.

- *Categorize your products, tools, equipment, or materials carried into the groupings provided on page x.*
- *Each applicable grouping code should be entered only once.*
- *Each item carried should be categorized into ONLY ONE GROUP.*
- *Include any backhauls, trip leasing, etc.*
- *Round to the nearest whole percent*

EXAMPLE – If the vehicle carried landscaping tools and hauled debris away, your response might be similar to this:

<u>Code</u>	<u>Percent of loaded miles</u>	
22	100	For items such as rakes, shovels, hand saws, etc. (when carried for all loaded miles)
23	100	For items such as leaf blowers, chainsaws, etc. (when carried for all loaded miles)
18	50	For tree limbs, wood chips, etc. (when carried for half of loaded miles)
44	25	For grass clippings or other waste (when carried for one quarter of loaded miles)

Questionnaire:	TC-9501 and TC-9502
Skip pattern:	Vehicles not in use are asked to skip this question Vehicles reported as rental use are asked to skip this question Vehicles reported as personal transportation use are asked to skip this question Vehicles reporting 100% empty are asked to skip this question
Quality issues:	None

Products, Equipment, or Materials

Summary of proposed changes:

None

Hazardous Materials

At any time during 2007 was this vehicle or vehicle/trailer combination used to transport hazardous materials in quantities large enough to have a hazmat placard on the vehicle required by 49 CFR Part 172 Subpart F? *Mark ONE box only.*

- ☐ Yes
- ☐ No

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles reported as rental use are asked to skip this question
Vehicles reported as personal transportation use are asked to skip this question
Vehicles reporting 100% empty are asked to skip this question

Quality issues: None

Hazardous Materials

What approximate percent of 2007 mileage did this vehicle or vehicle/trailer combination transport hazardous materials in quantities large enough to have a hazmat placard on the vehicle required by 49 CFR Part 172 Subpart F? *Round to the nearest whole percent.* _____%

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
Vehicles reported as rental use are asked to skip this question
Vehicles reported as personal transportation use are asked to skip this question
Vehicles reporting 100% empty are asked to skip this question
Vehicles reporting no hazardous materials carried are asked to skip this question

Quality issues: The structure of this section doesn't match that for products, equipment, or materials
This data item only appears on the CD-ROM

Hazardous Materials

What was the approximate percent of 2007 mileage for which this vehicle or vehicle/trailer combination carried each of the following types of hazardous material(s)?

- *Only report percents for those hazardous materials carried in quantities large enough to have a hazmat placard on the vehicle.*
- *Percents can add to more than 100% if more than one hazardous material was carried at the same time.*
- *Round to the nearest whole percent.*

Division 1.1	Explosives 1.1	_____ %
Division 1.2	Explosives 1.2	_____ %
Division 1.3	Explosives 1.3	_____ %
Division 1.4	Explosives 1.4	_____ %
Division 1.5	Explosives 1.5	_____ %
Division 1.6	Explosives 1.6	_____ %
Division 2.1	Flammable gas	_____ %
Division 2.2	Nonflammable gas	_____ %
Division 2.3	Poison gas	_____ %
Class 3	Flammable	_____ %
Combustible liquid	Combustible	_____ %
Oxygen 2	Oxygen	_____ %
Division 4.1	Flammable solid	_____ %
Division 4.2	Spontaneously combustible	_____ %
Division 4.3	Dangerous when wet	_____ %
Division 5.1	Oxidizer	_____ %
Division 5.2	Organic peroxide	_____ %
Division 6.1	Poison inhalation hazard	_____ %
Division 6.1	Poison	_____ %
Class 7	Radioactive	_____ %
Class 8	Corrosive	_____ %
Class 9	Class 9	_____ %

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question
 Vehicles reported as rental use are asked to skip this question
 Vehicles reported as personal transportation use are asked to skip this question
 Vehicles reporting 100% empty are asked to skip this question
 Vehicles reporting no hazardous materials carried are asked to skip this question

Quality issues: The structure of this section doesn't match that for products, equipment, or materials

Discuss the need to show both division/class and placard name

Hazardous Materials

Summary of proposed changes:

- The second question asking for percent of overall mileage carrying hazardous materials will be shortened to:

What approximate percent of 2007 mileage did this vehicle or vehicle/trailer combination transport hazardous materials?

- The hazardous materials section will be modified to follow the logic applied in the products section (i.e., percent of hazardous materials will be for loaded miles). This means the wording for the third question will be modified to:

What percent of the mileage noted above (in question 2) were the following types of hazardous materials carried?

Session 7: Home Base

Home Base

Did this vehicle operate from a home base location during 2007?

- *Home base refers to the location where the vehicle was usually parked when it was not on the road, such as a home, farm, terminal, etc.*
- *Vehicles that might NOT operate from a home base are typically consumer one-way rentals or some over-the-road truck tractors.*
- *If this vehicle is on lease to someone else, answer ALL home base questions as they pertain to the lessee.*
- *Mark ONE box only.*

☐ Yes

☐ No

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Quality issues: This data item only appears on the CD-ROM

Home Base

Where was the home base of this vehicle on July 1, 2007? *If this vehicle was put into service after July 1, 2007, enter current home base.*

City (or city equivalent): _____

State: _____

Zip Code: _____

County/Parish/Borough (or equivalent): _____

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles reporting no home base are asked to skip this question

Quality issues: These data items only appear on the CD-ROM as recoded to in/out of an MSA

City and county/parish/borough are not needed to code in/out of MSA

Home Base

What was the type of home base from which this vehicle operated? *Mark ONE box only.*

- ☐ Private residence (home, farm, etc.)
- ☐ Company office/headquarters
- ☐ Terminal
- ☐ Distribution center
- ☐ Manufacturing plant
- ☐ Other – *please specify* _____ -

Questionnaire: TC-9501

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles reporting no home base are asked to skip this question

Quality issues: This data item only appears on the CD-ROM

What was the type of home base from which this vehicle operated? *Mark ONE box only.*

- ☐ Company office/headquarters
- ☐ Terminal
- ☐ Distribution center
- ☐ Manufacturing plant
- ☐ Private residence (home, farm, etc.)
- ☐ Other – *please specify* _____ -

Questionnaire: TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles reporting no home base are asked to skip this question

Quality issues: This data item only appears on the CD-ROM

Review how most common write-ins should be handled: shop, retail store

Home Base

Of the following, how many trucks/trailers do you or your company operate from the home base location indicated in [the home base] question on page x?

Pickups, small vans (including minivans), and sport utility vehicles	_____ , _____
Tractors (power units only)	_____ , _____
All other trucks	_____ , _____
Trailers (including trailer mounted equipment)	_____ , _____
Converter dollies	_____ , _____

Questionnaire: TC-9501 and TC-9502

Skip pattern: Vehicles not in use are asked to skip this question

Vehicles reporting no home base are asked to skip this question

Quality issues: These data items only appear on the CD-ROM

The Census Bureau has serious concerns about releasing any future data from this item. There is concern that the additional identifying information (e.g., kind of business, operator classification, products carried) COULD be used with outside fleet databases to match and identify individual records. Because of this and other concerns about data quality, this item will be dropped.

Home Base

Summary of proposed changes:

- The second question asking for physical location of home base will no longer collect city and county/parish/borough.
- The fleet size question will be dropped. Due to Census Bureau concerns with releasing ANY fleet size data no revisions to this question will be entertained.

Session 8: Data Dissemination

The 2007 VIUS program will strive to provide quality data in a timely manner. The Census Bureau may institute changes to our dissemination process that we would like to discuss with you:

Data user questions:

- What do you consider to be the key VIUS statistics or data items?
- How do you feel about the VIUS CD-ROM? (issues, likes/dislikes, installing software)

Publications:

- In 2007 we do not plan to publish pdf tables for the U.S. and each state (Tables 1a-8)
- We plan to disseminate data through the American Fact Finder (AFF). The AFF displays the results of census or surveys in table and/or map format. It allows users to create custom cross-tabulations or tables. AFF capabilities may result in the discontinuation of our microdata CD-ROM (file could still be made available on-line with no tabulation software).
- AFF demo <http://www.census.gov/hhes/www/housing/ahs/ahs03/tab1a1.htm>

The U.S. Census Bureau has modified data release standards, which will consequently impact the data items published. More restrictive data quality standards could potentially limit the amount of data we release – more suppression flags. As a result, data users may need to request custom tabulations to receive unpublished statistics that are of interest to them.

Historical data sets:

- Ideas on how a historical data CD could be put together (merge all data years, separate data years but comparable mnemonics)
- Data dictionary (renaming mnemonics)
- File formats